

Lakeside Archipelago Reserve Function: Dispersal Study of the California Gnatcatcher (*Polioptila californica*) in the Vicinity of Interstate 8

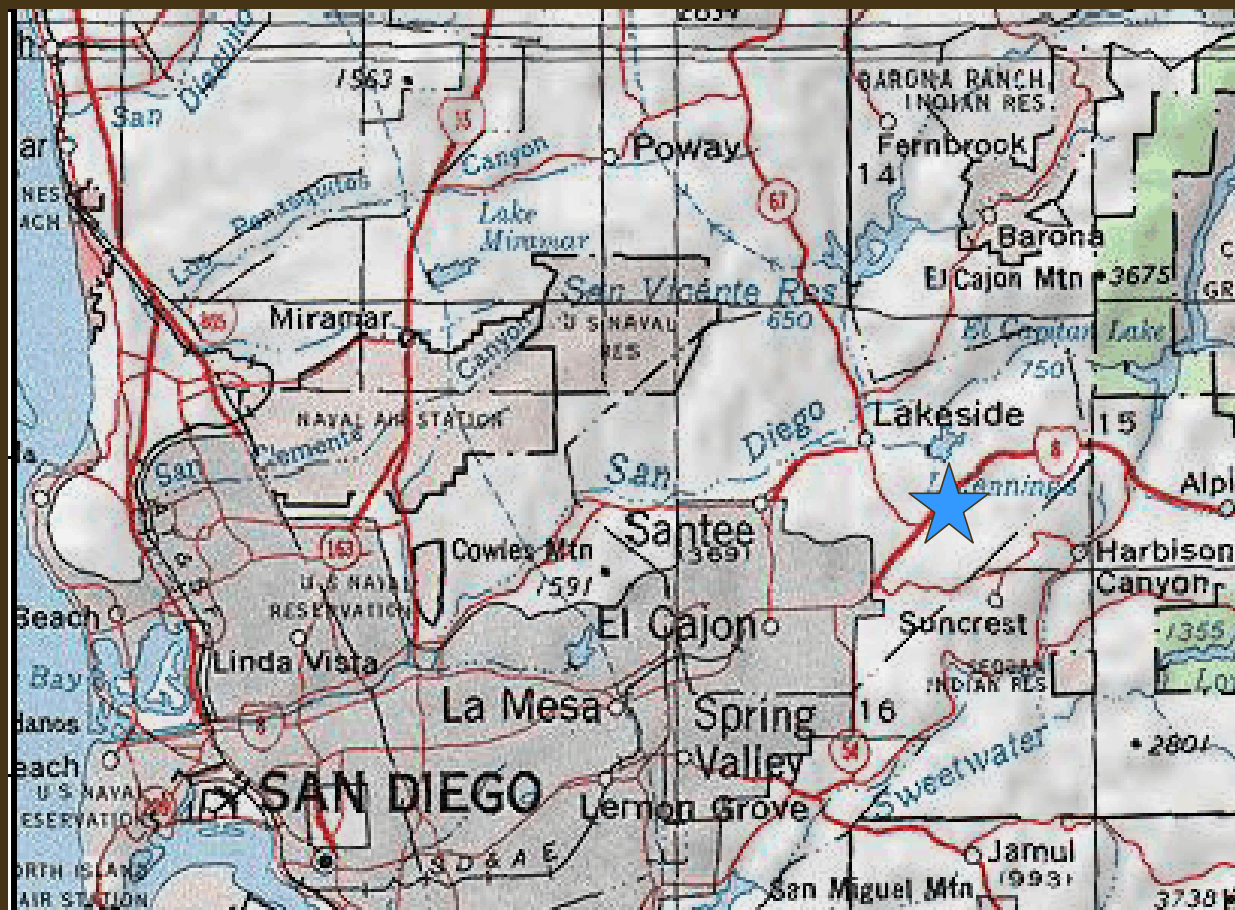
A Joint Study By:
Campbell BioConsulting (Riverside, CA)
And
Varanus Biological Services (San Diego, CA)



Location

- United States Geological Survey (USGS) 7.5' minute El Cajon map, El Cajon Rancho; Township 15 South, Range 1 East.
- South of I-8 the study area includes portions of the Gatlin mitigation parcel (APN 401-191-03) and the Pembroke mitigation parcel (APN 401-010-03,02).
- North of I-8 the study sites include the CalTrans mitigation site (APN 400-070-05) and a portion of the Crestridge Ecological Reserve.





Goals

The general goal of our study is:

- To assess the function of the study area as a functional corridor as it is assumed to be in the MSCP Subarea Plan.

Specific Study Goal

The specific goal of our study is:

- To evaluate whether California gnatcatcher movement across I-8 occurs.



Hypothesis

- The California gnatcatcher does not traverse I-8 in the vicinity of the study area.

Testable Hypothesis

- California gnatcatchers banded on one side (i.e., north or south) of Interstate 8 will not be found on the opposite side of the highway.



Approach

- **Two-year study**
- **Determine the distribution of the California gnatcatcher within the study area**
- **Color band “locals”, fledglings, and/or juveniles**
- **Monitor color banded birds**
- **Examine post-banding locations of juvenile California gnatcatchers on the Gatlin and Pembroke mitigation areas (south of I-8) and the CalTrans mitigation site (north of I-8).**



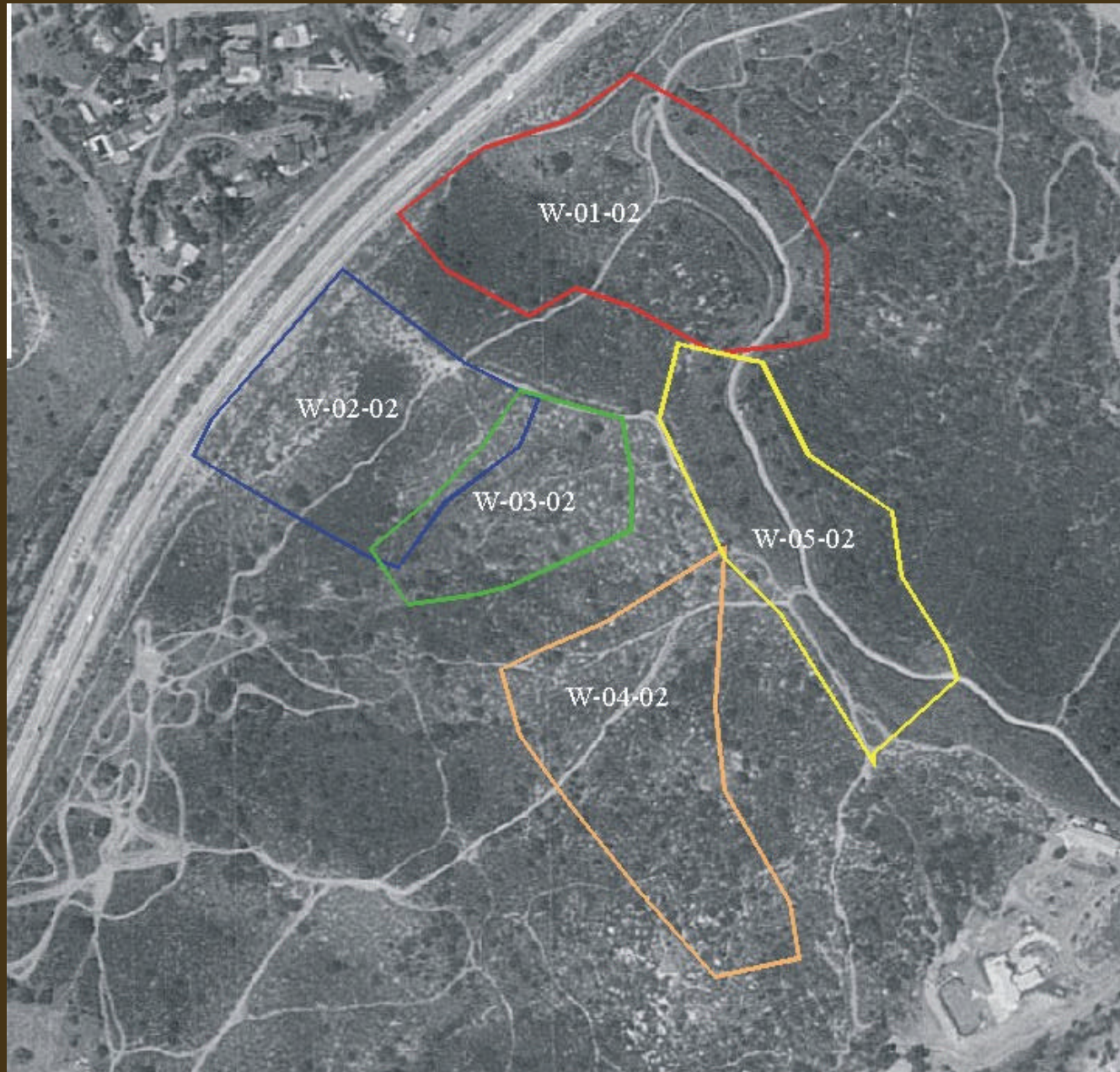




North of I-8 CAGN Territories



South of I-8 CAGN Territories



Banding Scheme

- Place one numbered U.S. Geological Survey (USGS) aluminum band on one leg
- Place one or two celluloid color bands on the other leg.

Banding Combinations

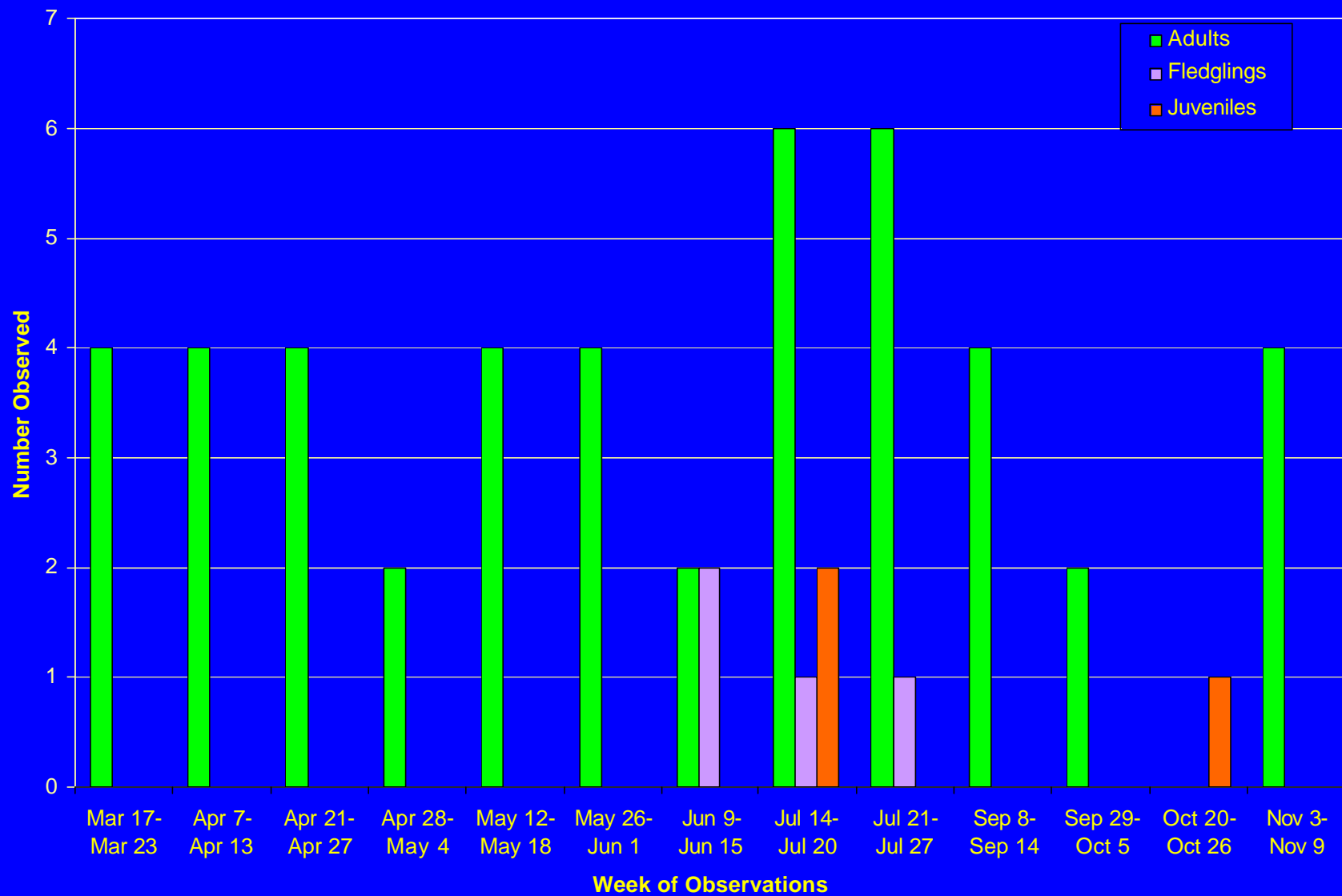
<u>Left Leg</u>	<u>Right Leg</u>
White (1)	Silver USGS
Purple (1)	Silver USGS
Purple – Purple (2)	Silver USGS
Dark blue – Orange (2)	Silver USGS
Orange – Orange (2)	Silver USGS
Yellow - Blue (1)	Blue USGS



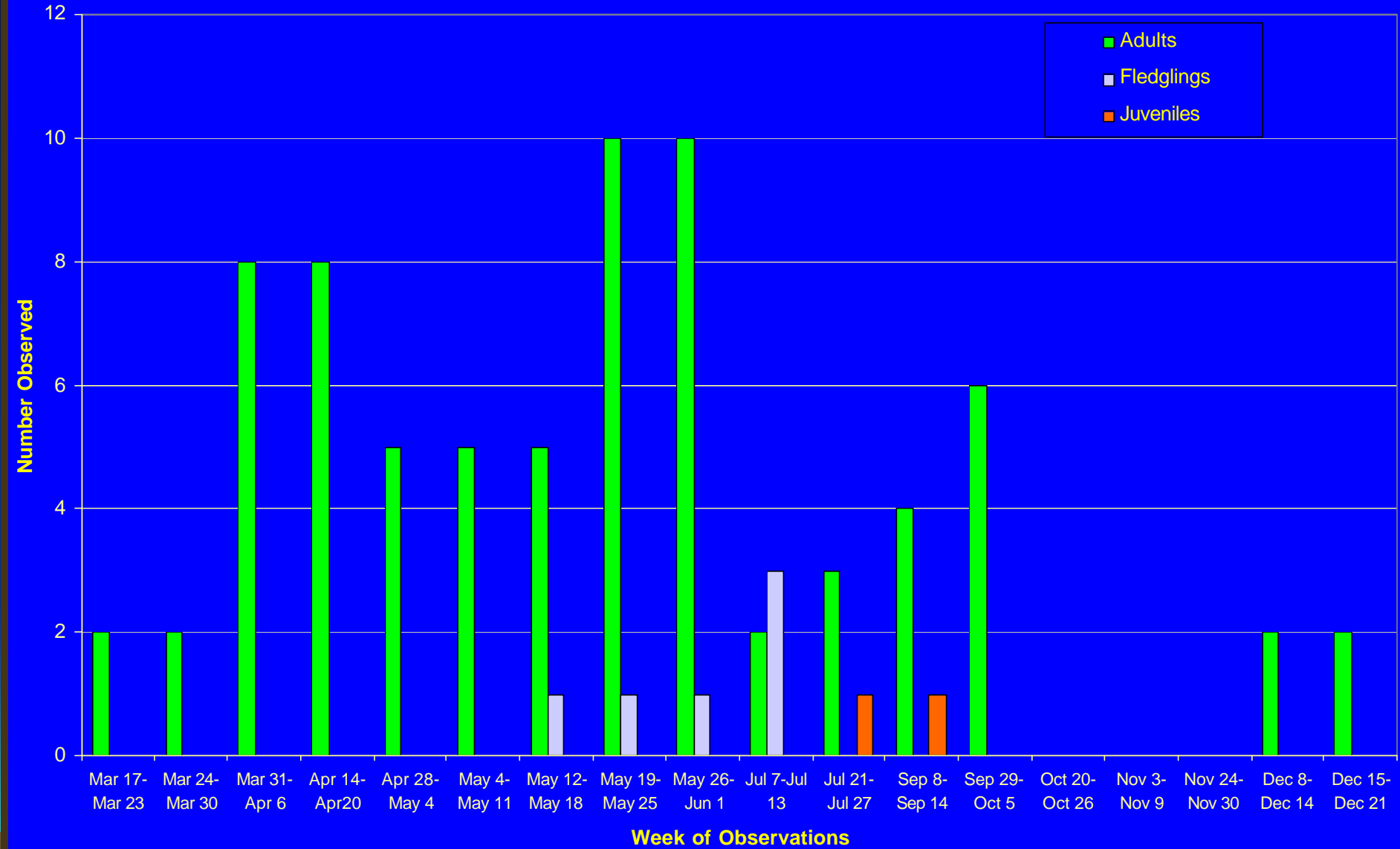




Caltrans Parcel



Walmart Parcel



Re-sighted Juveniles

- 23 July 2002

**Observed Left Leg White; Right Leg Silver USGS
on WalMart Parcel**

- Initially banded 11 June 2002
on CalTrans Parcel

- 19 September 2002

**Observed Left Leg Purple; Right Leg Silver USGS
on WalMart Parcel**

- Initially banded 11 June 2002
on CalTrans Parcel



ACKNOWLEDGEMENTS

- The initial study design was the product of the collaborative efforts of:
 - Dave Lawhead (CDFG) and
 - Clark Winchell (USFWS).
- The funding source is the CDFG in support of the County of San Diego, Dept. of Parks and Recreation.

